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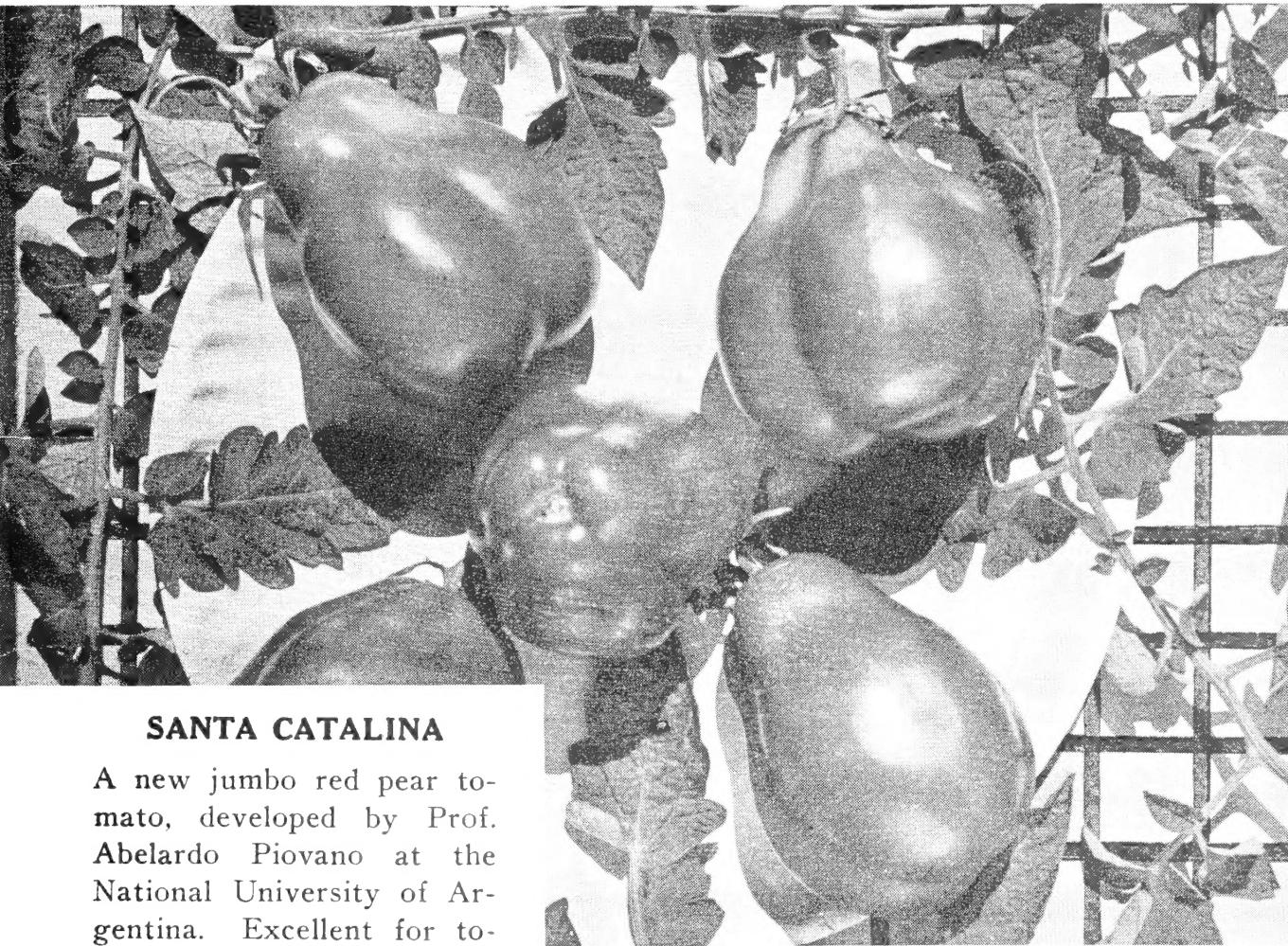


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U. S. Department of Agriculture

A World of New Tomato Varieties



SANTA CATALINA

A new jumbo red pear tomato, developed by Prof. Abelardo Piovano at the National University of Argentina. Excellent for tomato paste or as a salad tomato, grown in the home garden. Mid-season to late in maturity.

Packet Postpaid (about
600 seeds) 25c

There's Always Something
New at Glecklers—

- New Strains of Tomatoes.
- Rare Vegetables Now in the Process of Procurement.

GLECKLERS: SEEDMEN

METAMORA, OHIO

Growers - Breeders - Importers

The smallest order assures continuous catalog mailings

AT LAST IT HAS BEEN PROVEN

Laboratory tests at the University of California have shown that streptomycin, an anti-biotic derived from favorable bacterial mold, is effective in treating seeds infected with bacterial diseases. In their extensive tests this anti-biotic gave excellent control of tomato seed infected with bacterial speck and canker. Limited experiments in the field also were encouraging.

NOTHING NEW—Nature has been using this system of seed treatment for thousands of years. GLECKLERS: Seedmen, have been extracting seed from rotten tomatoes for several years. Full details were given in our 1951 catalog. In the natural rotting of the tomato, anti-biotics are created, treating the seed for any seed-borne diseases that may be present. Most everyone has noticed the presence of white mold on rotten tomatoes, which is the visual indication of anti-biotical action.

WE HAVE ALSO FOUND in our tests that the pulp and juice of tomatoes are very high in phosphorous content. It is already known that seeds are mainly made up of the same element. It is likewise most certain, during the rotting process, the seed absorbs additional phosphorus in fortifying itself for future propagation.

ANOTHER TREATMENT takes place during the rotting process—a system of SURVIVAL OF THE FITTEST. Through this grueling treatment weak seeds, which produce subsequent plants of low vitality, subject to disease and low yields, are prevented from germinating. SURVIVAL OF THE FITTEST has been the common rule to all forms of life down through the ages.

ADDITIONAL PROOF of the effectiveness of anti-biotics in seed treatment has been shown in tests at The Wyoming Agricultural Experiment Station. Recent tests there have shown streptomycin to be very effective in treating seed beans for bacterial blight. Former control was mostly by the troublesome hot water method.

WE PRODUCE SEED FOR A PURPOSE, NOT AS A BY-PRODUCT



Plant Breeder and Tomato Specialist

GLECKLERS: Seedmen

All tomato seed prices in this catalog are postpaid within the U. S. and possessions.
Foreign shipments are only postpaid to the port of embarkation.

TERMS: CASH WITH ORDER. CHECKS BELOW ONE DOLLAR NOT
ACCEPTABLE. MONEY ORDERS OK, ANY AMOUNT

GLECKLERS: Seedmen, give no warranty, express or implied, as to the productiveness of any seeds we sell and will not be in any way responsible for the crop. Our liability in all instances is limited to the purchase price of the seeds.



QUEEN (68 Days)

A very important new market strain developed through the cooperation of Rutgers University and the New Jersey Agricultural Experiment Station, supervised by Mr. L. G. Schermerhorn, professor of vegetable crops. A cross of Rutgers X Valiant and named after the original Queens College, which is now known as Rutgers University. Vine growth indeterminate, very rapid, extensive and sprawling. Perfect for staking. Foliage density midway between both of its parents, and appears to be completely resistant to fusarium wilt. Mid-season in maturity, ripening about a week to 10 days earlier than Rutgers. An exceptionally heavy producer of very deep globular fruits averaging medium in size. Thick outer walls, good inside color and a semi-acid flavor make it adapted as a juice type canning tomato. The development and release of Queen we believe is as important as its Rutger parent. Complete disease control is necessary.

Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c; 1 oz. \$3.50; $\frac{1}{4}$ lb. \$11.75

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FACTS ON TOMATOES

So popular is the tomato and so varied its uses, it's not surprising that homemakers have many questions about it. Following are five perennial questions that homemakers ask food specialists of the USDA and their answers:

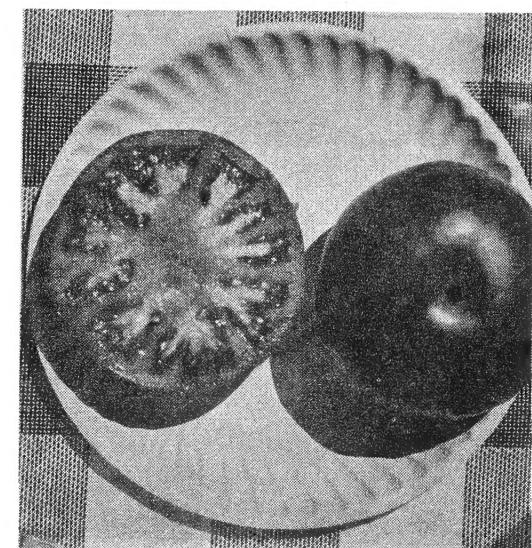
1. **Do tomatoes form acid in the body?** No. Tomatoes are acid as eaten, but in the processes of digestion and metabolism in the body, they ultimately have an alkaline reaction.
2. **Is it safe to cook tomatoes, or heat them for canning, in aluminum pans?** Yes. There is no evidence that the small amount of aluminum dissolved by tomatoes heated in aluminum pans is harmful.
3. **Is it safe to leave canned tomatoes in the tin after opening?** Yes, if they are kept cold and covered. A slight metallic flavor may develop, but it is harmless.
4. **Is tomato juice spoiled when it separates?** No. Just before using, shake or stir vigorously.
5. **Why do home-canned tomatoes sometimes float in the jar?** The pack may be too loose, or air in the tissues of the tomatoes has not all been forced out during heating or processing.

THESSALONIKI (68 Days)

A wonderful new strain recently developed at the Ministry of Agricultural Experiment Farm in Greece. A cross of early Thessaloniki and late Thessaloniki. Mid-season in maturity. Vine growth indeterminate heavy, with dense foliage. Plant health throughout the season is very good, carrying considerable resistance to fungus diseases. Most amazing is its characteristic of producing practically all uniform size, deep globular fruits about the size of a baseball. Very beautiful, smooth, with perfect blossom ends. Small and rough-shaped fruits are a rarity. Skin is very tough, highly resistant to cracking. Ripens to a beautiful scarlet color, uniformly over the entire fruit. Its solid fleshy interior is mildly flavored and fruits keep very well after ripening. Adapted for staking and we value it a very important market or home garden strain.



Foliage removed showing fruit. Baseball for comparison.



ATHENS (68 Days)

A selected strain of this variety obtained from Greece. Mid-season maturity. Medium-size vines, dense foliage and semi-sprawling in growth. Fruits average very large, heavy, solid-fleshed and without a core. Athens is the only extra large fruited variety we have ever seen having a notable absence of rough fruits, yet maturing a heavy yield of extra large, smooth, red fruits in mid-season. Flavor is semi-mild. Its value would be most important to local markets or home gardeners who desire very large tomatoes.

Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c; 1 oz. \$3.50

LANGADA (80 Days)

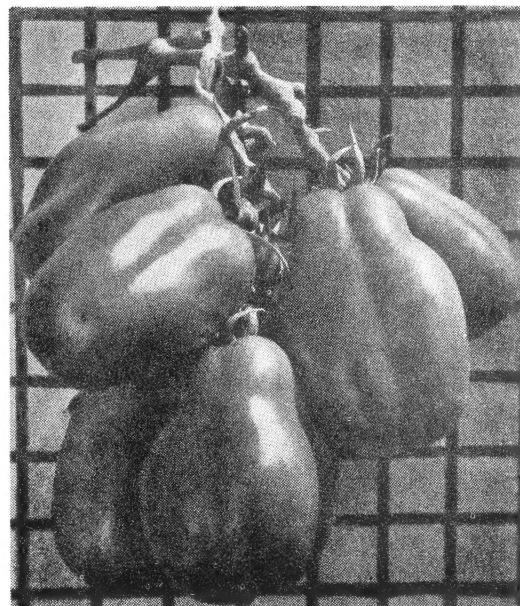
A large fruited late tomato from Greece. Although maturity is much too late for northern areas, we do believe this strain would be of value to extreme southern states. Vine growth is terrific, foliage extremely dense. Fruits are very large, flat, solid, meaty and set very freely. Its value would only be for local roadside markets or home gardens in the southern states.

Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c; 1 oz. \$3.50

SAN MARZANO (65 Days) **Large Fruited Strain**

A selected strain of Italian paste tomato obtained from Mr. Abelardo Piovano, professor of vegetable crops and agronomist at the National University of Argentina. A very large fruited strain obtained after many selections by Prof. Piovano in his extensive work in tomatoes. Mid-season in maturity. Vine growth vigorous, bushy, with dense foliage and of excellent plant health. A very heavy yielder of beautiful deep scarlet, long plum-shaped fruits, having a most tempting, frosty, meaty and mild flavor. Having very little juice, excellent for tomato paste or combining with a juice variety for home canning. A most beautiful and tasty salad can be prepared by slicing lengthwise and stuffing with bits of cabbage and peppers cut-up, garnished with mayonnaise.

Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c; 1 oz. \$3.50; $\frac{1}{4}$ lb. \$11.75



Background 1-inch squares

TOMATOES, THE HEALTH BUILDERS

Just to prove to ourselves that the tomato is as healthy as we always knew it was, the USDA has found that the composition of fresh tomatoes, chemically, is as follows:

Water, 91.1 per cent; carbohydrate, 3.4 per cent; protein, 1.0 per cent; fiber, .6 per cent; fat, .3 per cent; ash .6 per cent. The ash contains calcium, .011 per cent; phosphorus, .026 per cent; iron, .00044 per cent; copper, .00007 per cent.

In the vitamin department, the tomato has ascorbic acid (vitamin C), vitamin A, niacin and thiamin (vitamin B-1). Forty-five per cent of the dietary allowance of vitamin C for an average man is supplied by one average-size tomato ($2\frac{1}{2}$ inches) and 33 per cent of the same man's needs of vitamin A, 6 per cent of the niacin and thiamin he will need plus $7\frac{1}{2}$ per cent of the iron allowance for the day.

The moral to this is: EAT MORE TOMATOES.

PUCK (68 Days)

An extremely dwarf English variety. We think it must be Tiny Tim's little brother. Low growing, stubby plants with ridged, wide, dark green leaves. Maturity mid-season. Small globular fruits seldom attain a size more than $1\frac{1}{2}$ inches in diameter, grouped mainly up the main stem almost completely hidden. The mass of clusters is very tight together, similar to grapes. Light red fruits are very solid, mild in flavor and keep long after ripe. Puck possesses a notable characteristic of being able to set fruit in very cool temperatures.



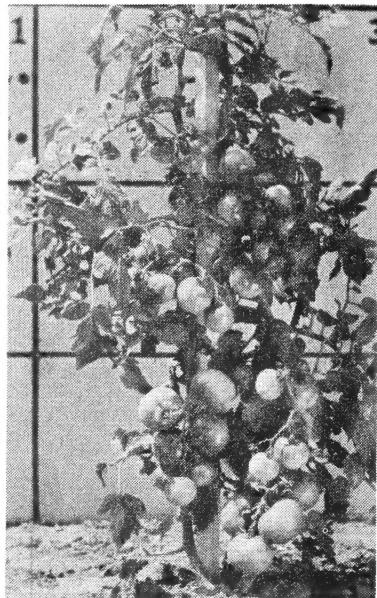
Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c

POTENTATE (60 Days)

A forcing tomato for early market used in England and New Zealand. A typical early staking variety. Vine growth medium size, vigorous, becoming semi-open at ripening time. Potentate sets heavy early fruit clusters very freely as noted in the photograph, ranging from small to medium in size and of a most uniform globular shape. Skin is tough and highly resistant to cracking. Medium red fruits are mild in flavor. A very heavy early yielder under adverse conditions.

**Postpaid: Packet (about 600 seeds) 25c;
1/4 oz. 90c; 1 oz. \$3.50**

Don't plant more garden than the wife can reasonably weed and take care of: Better yet, get her one of our **Jonnum's Stainless Steel Garden Hoes** and make her task much easier. They never rust or clog-up with dirt, always clean themselves. (See particulars in back of this catalog.)



MARKET SUPREME (62 Days)

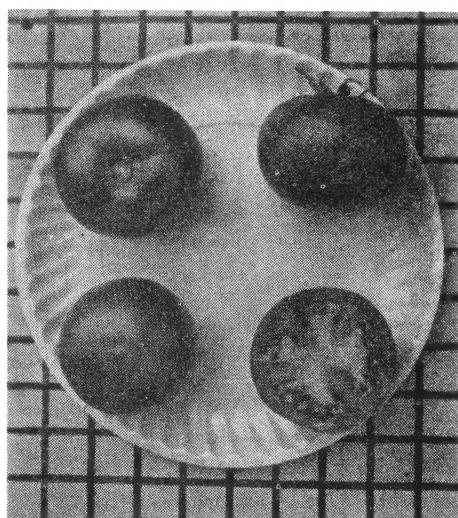


An important early staking variety from New Zealand, similar to the above Potentate, but having heavier foliage and much larger fruit. Maturity is about three days later than Potentate. Vine growth semi-dense, rather extensive, sprawling and very healthy. A very heavy yielder of medium size globular-shaped fruits of a most excellent packing size. Ripens to a bright scarlet color, tough skin, resisting cracking and keeping well after ripe. Fruit in the first clusters number considerably greater than Potentate. We believe Market Supreme is a very good strain for greenhouse and outdoor forcing for market.

**Postpaid: Packet (about 600 seeds) 25c;
1/4 oz. 90c; 1 oz. \$3.50**

MARKET FAVORITE (65 Days)

Another early market strain from New Zealand. An excellent early staking variety; however, it is a few days later than Market Supreme, listed above. Vine growth extensive, medium dense foliage and of unusual rapid growth. A big yielder of much larger fruits than either of the above strains, averaging medium to large in size. Exceptionally smooth skin, thick outer walls and semi-acid flavor. Where a few days of delayed maturity is not a factor and larger fruit most desirable, Market Favorite produces the additional fruit quality.

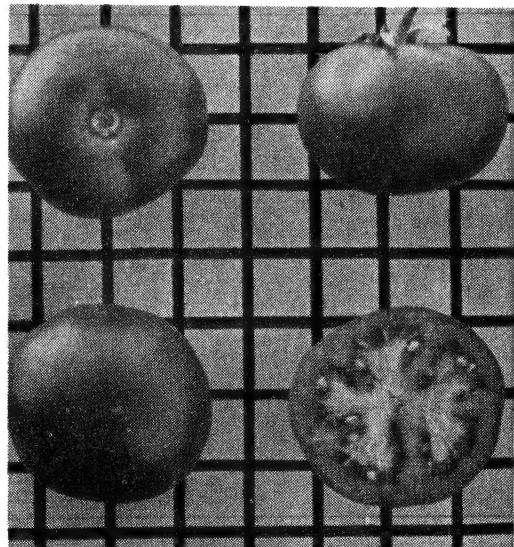


Postpaid: Packet (about 600 seeds) 25c; 1/4 oz. 90c; 1 oz. \$3.50

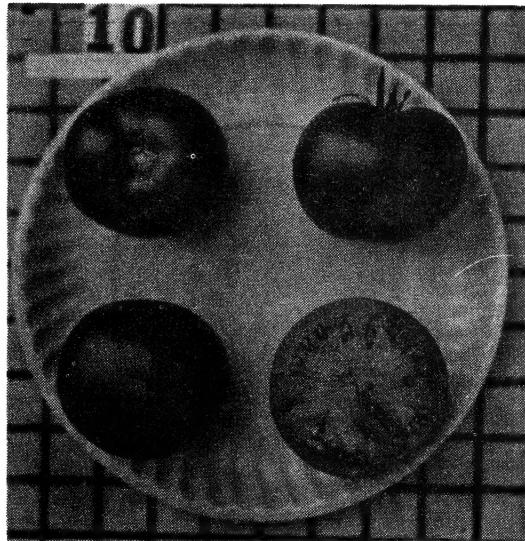
ALPINE (60 Days)

An extra-ordinary new early red variety developed at the Cheyenne Horticultural Field Station in Wyoming. Medium size vine, dense foliage for an early strain and very healthy. Semi-determinate, but can be used for staking in a two-stalk system. A very heavy yielder, setting fruit very freely under cool temperatures. Slightly flattened, globular fruits are very solid and meaty. Ripens to a beautiful deep red color, evenly over the entire fruit, without green or yellow shoulders. Medium size, averages very uniform. Most notable is the exceptionally tough skin, resisting cracks almost completely. Flavor is semi-acid and very delicious. Alpine shows great promise as an early market strain and also for canning.

Postpaid: Packet (about 600 seeds) 25c; $\frac{1}{4}$ oz. 90c; 1 oz. \$3.50; $\frac{1}{4}$ lb. \$11.75



Background 1-inch squares



EARLY SCARLET (62 Days)

A new early red strain developed at the University of Wisconsin. Vine growth rather dense and vigorous, with excellent foliage coverage. Well adapted for staking. Heavy yielder of very smooth, globular-shaped fruits, slightly flattened and ripening to an even red color over entire area. Flavor is very mild. Its value will be mostly for fresh market.

**Postpaid: Packet (about 600 seeds) 25c;
 $\frac{1}{4}$ oz. 90c**

The popular belief that acid-tasting tomatoes have more vitamin C than flatter-tasting tomatoes is not necessarily borne out by actual test, say New York State Experimental Station scientists at Geneva. Actually, vitamin C is more closely related to climatic conditions, especially sunlight.

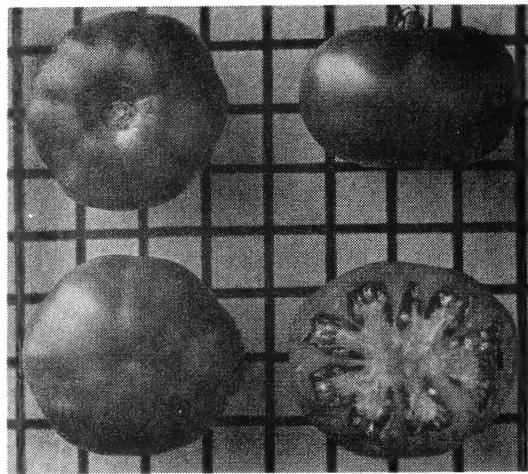
PEARSON (Improved Strain) (75 Days)

The most popular tomato variety grown in California. Medium size vines, bushy, self-topping and having dense foliage. Excellent yielder under hot temperatures of large deep globular fruits, very solid, meaty, ripening to a good red color suitable for canning. It has always been assumed by many that Pearson is too late in maturity for northern areas. This is not true, for we grow it very successfully, with most of the fruit getting ripe. It is likewise adapted to Florida and many other southern areas. Our northern grown Pearson seed tends to increase the hardiness and earliness of this variety.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 35c; 1 oz. \$1.25; $\frac{1}{4}$ lb. \$4.50; 1 lb. \$14.00

MARMANDE (60 Days)

One of the important extra early strains obtained from Israel. A leading variety in their country for many years. Originated in France, migrated to Algiers and thence became established in Israel. Vine growth small to medium in size, determinate, quite similar to Victor, but having much greater foliage coverage. Plants are very healthy. A big yielder of medium to large-size fruits, very flat and many oblong in shape. Its good red color and fruit quality is sufficient to be used for canning. Australia and New Zealand use dwarf strains, such as Marmande and others, for their canning industries.



Postpaid: Packet (about 600 seeds) 25c; 1/4 oz. 90c; 1 oz. \$3.50

PRINCE OF WALES (60 Days)

A very early market tomato obtained from South Africa. Particularly adapted for staking. Medium size vines, quite sprawling, rather open at ripening time. Fruit set is very heavy, especially in the first clusters. While it does possess a tough skin and medium size, smooth globular fruits, its main drawback is its hard green core. Ripens to a dark red color and mild in flavor. Because of its earliness and fruit setting ability, may have value for breeding purposes.

Postpaid: Packet (about 600 seeds) 25c; 1/4 oz. 90c

DURBOT (70 Days)

A new wilt-resistant, red variety recently developed in South Africa. Vine growth large, sprawling, dense foliage. Well adapted for staking. Mid-season in maturity, very productive. Sets fruit very freely under adverse conditions. Fruits average large, solid, bright red color, slightly flattened in shape. We believe Durbot has possibilities for both canning and market in southern states or other areas infested with Fusarium Wilt.

Postpaid: Packet (about 600 seeds) 25c; 1/4 oz. 90c; 1 oz. \$3.50

VOKAL (65 Days)

A new pink variety developed by Mr. Charles F. Vokal in Texas. Large sprawling vines, medium dense foliage, very healthy growth. Well adapted for staking. Very productive and free fruit-setting ability. Early in maturity. Small to medium size, ranging from 1½ to 3 inches in diameter and globular in shape. Very similar to our Summer Prolific listed elsewhere in this catalog, but of slightly larger fruits and better fruit quality. Very resistant to cracking. Amazing characteristic of fruit is its long keeping quality, being common for them to keep for a month without breaking down. Flavor is mild and wonderful tasting. Bearing season extends over a long period until killed by frost.

Postpaid: Packet (about 600 seeds) 25c; 1/4 oz. 90c

TOMATO TREE (*Cyphomandra Betacea*)

A most interesting plant specimen grown in a large flower pot in the home, greenhouse, or may be permanently set outdoors in the extreme southern states. Starting the plants from seed is very simple. Soak seeds in warm water for a day, then sow in a flower pot as shown at lower right photograph, and place a fruit jar or similar glass bowl over the seed area. This gives a sort of a jungle moist heat so necessary for germination. Seedlings may be transplanted to other pots after reaching about three inches in height.

Choice of Three Strains—

"RED"—The common standard strain. Medium size, purplish-red fruit, black seeds, acid flavor.

"GOLDEN GEM"—A new hybrid recently developed. Beautiful golden red fruits, mild flavor, light colored seeds.

"YELLOW"—Mild flavored, yellow flesh, light colored seeds.



Postpaid: 25 seeds of any of the above strains 50c. No mixed packets or sold less than 25 seeds per packet of any strain. Cultural instructions included with each packet.

ITS HISTORY

This sub-tropical shrub of the Solanaceae or tomato family, originally was discovered growing wild in Brazil and Peru, South America. About 40 years ago seeds were taken to New Zealand, where it was developed into a very important crop. It is estimated there are about 170 acres now being grown there. The Tomato Tree grows about 12 feet high with large elephant-ear-like leaves. Plants started in the nursery from seed bear lightly at the end of the first year and much heavier the second year. Bearing life is about 12 years, although they have been noted to produce for 20 years. Few diseases ever affect the tree, limited mostly to cucumber mosaic and Tomato Tree mosaic, both of which are virus diseases. The trees are pruned and trained similar to other orchard fruit culture. Cuttings can be taken and re-rooted. Ripening in New Zealand from late April to early November, the Tomato Tree has a very long fruiting season. The plum-shaped fruits hang in clusters. Very firm flesh and tough skin allow long distance shipping without bruising. The fruits are very versatile for they can be used in salads and savory dishes, as a vegetable and delicious for desserts. The skin is unpalatable and may be easily removed by immersing in boiling water for a few minutes and then peeled. The fruits bring high prices on New Zealand markets. The Tomato Tree makes a very interesting exhibition specimen for the greenhouse or may be started in the house in a large flower pot like a lemon or orange tree. Many areas in the extreme southern states are adapted to commercial propagation. The trees can withstand only a very light frost and must be grown in frost-free climates or be amply protected.

MARMAN (50 Days)

A new development from Argentina, extra early in maturity and very resistant to fungus diseases. Vine growth semi-determinate, medium size with most unusual foliage coverage. Plants five inches high start forcing blossom clusters. A rapid race continues between plant growth and blossom forcing until first fruits ripen, terminating growth. Fruits average medium size, slightly ribbed shoulders, moderately flat in shape. Ripens to a good red color. Most important is their high resistance to sun scald and cracking. Fruits have long-keeping qualities after ripe. In most areas Marman can be grown without spraying or dusting; however, under severe outbreaks only limited control of septoria and anthracnose is necessary.

**Postpaid: Packet (about 600 seeds) 25c;
1/4 oz. 90c; 1 oz. \$3.50; 1/4 lb. \$11.75**



WE EAT A LOT OF TOMATOES—Tomato consumption in the United States is estimated as approximately 24 pounds or 75 medium-sized fresh tomatoes, either fresh or home canned. Commercially canned consumption is about nine cups of canned tomatoes, 13 cups of soup and juice plus nine cups of puree, paste, sauce, catsup and chili sauce per person per year.

TOMATO FORTUNE (72 Days)

An outstanding new red developed at the University of Arkansas. A cross of Rutgers X Pan American. Large bushy vines, inherited from its Rutgers parent, possess even greater foliage density. Fruit yield, much higher, averaging only slightly smaller than Rutgers in size. Greater globular depth of fruits, possess the Rutgers characteristic of ripening to a deep red from the interior outward. Fruits are meaty without a core, mild, semi-acid and somewhat sweet in flavor. The juice is quite sticky, indicating sugar content. Maturity in season with Rutgers, but ripening first clusters a few days ahead of its parent. We find this variety very worthy of its name, "Fortune," showing fully one third greater fruit settings and yielding ability than Rutgers. Very important as a combination greenwrap and canning variety. Its

resistance to fusarium wilt, high fruit setting ability and dense foliage, will adapt Fortune to most of the southern states. A spray or dusting schedule is necessary for control of early blight, anthracnose and late blight.

Postpaid: 1/4 oz. 40c; 1 oz. \$1.10; 1/4 lb. \$3.50; 1 lb. \$12.50



MONTEREY (Red) (72 Days)

Super Argentina Strain

A large fruited strain of Ponderosa obtained from Argentina. The preferred canning tomato in their country. Vine growth extensive, healthy, very dense foliage and exceptionally rapid growth. Fruits average very large typically Ponderosa in shape. Very fleshy, without a core, ripening to a dark red color. Its highly acid flavor and fine red color make this strain very adaptable for the canning industry.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 45c; 1 oz. \$1.75; $\frac{1}{4}$ lb. \$6.50

PLAMAR (65 Days)

A new development from the University of Puerto Rico. A cross of their native variety, "Platillo," and Marglobe. Outyielded all other standard varieties by a wide margin, in their tests, due to its characteristic of setting more fruit under extremely hot climatic conditions. Vines are very vigorous, extensive, healthy and extremely rapid in growth. Slightly flattened fruits average medium in size, with thick placental walls. Ripens to a medium red color, semi-mild flavor and possessing good keeping qualities after ripe. Cracks are very limited. From our observations, we recommend Plamar for southern states, where other varieties produce low yields and set very few fruits, due to abnormally hot and dry climate. Plamar shows complete resistance to fusarium wilt and early blight. It is, however, susceptible to septoria leaf blight, anthracnose and late blight.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 35c; 1 oz. 90c; $\frac{1}{4}$ lb. \$3.50

WESTERN - RED (68 Days)

A new and important red, market variety developed by L. F. Locke, soil scientist at the Southern Great Plains Field Station. A cross of Porter X Danmark X Break O'Day. Western-Red was bred and selected for its characteristic of setting fruit under the hot and dry conditions of the respective area where it was developed. It has proven to produce much higher yields than other well known standard varieties under adverse climatic conditions. Vines are medium size, determinate in growth. Rather open foliage coverage; however, fruits resist sun scald remarkably well. Mid-season in maturity, the fruits attain a medium average size, light red color and mild in flavor. Western-Red is recommended as a home garden and local market variety for western Oklahoma, southwestern Kansas, eastern New Mexico and western Texas. From our observations Western-Red shows resistance to fusarium wilt, susceptible to anthracnose and early blight, moderate resistance to late blight.



Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 40c; 1 oz. \$1.50; $\frac{1}{4}$ lb. \$5.50

GARDEN STATE (72 Days)

A new canning and market variety developed by Dr. D. R. Porter of The Campbell Soup Company. Originally tested as Hybrid 37, and now named Garden State. A notable variety for its heavy yield of large size, well colored red fruits, maintaining good size over the entire season. Semi-globular fruits have tough skins, resisting cracking and sunburn. Due to excellent fruit qualities, Garden State has become one of the favored varieties used by Campbell Soup Company, and likewise equally fine for market. Maturity is mid-season to late, ripening slightly ahead of Rutgers. Vine growth is vigorous, healthy, thick stems, wide leaves and able to withstand adverse weather conditions. A complete spraying and dusting schedule is advisable to control early blight, anthracnose and late blight.

Postpaid: 1/4 oz. 25c; 1 oz. 75c; 1/4 lb. \$2.50; 1 lb. \$7.50

SUMMER PROLIFIC (Strain C) (65 Days)

New hot weather variety from the Texas Agricultural Experiment Station. A cross of Porters Globe and Stokesdale. Ripens to a beautiful deep pink, very smooth, practically crack proof and mild in flavor. Uniform size, averaging about six per pound in the first settings and the size increasing to four or five per pound later on. The globe-shaped fruits are extremely solid, because of their thick outer walls and very tough skin. Ripe fruits keep fine for long periods of time. Summer Prolific is able to set fruit in very hot summers, mainly because of the thick, heavy sepals protecting the flower parts. Vine growth very vigorous, upright and dense, with wide thick leaves, protecting fruits from the hot sun. Summer Prolific is an excellent variety for abnormally hot climates, resisting sun-scald and splitting, resulting in souring.

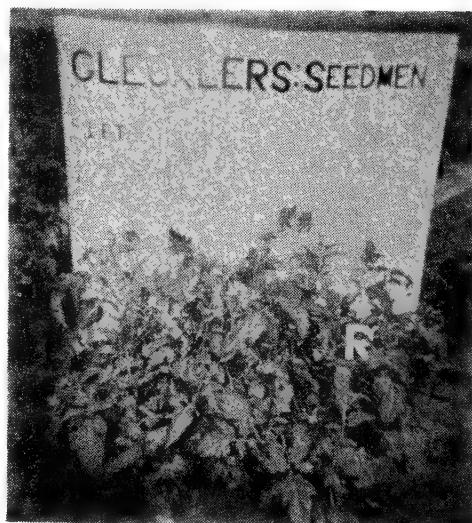
Postpaid: 1/8 oz. 25c; 1/4 oz. 40c; 1 oz. \$1.10; 1/4 lb. \$3.50; 1 lb. \$11.80

No man pays so much for his seed as the man who thinks quality can be bought without paying much for it.

RED JACKET (65 Days) (Potato Leaf Tomato)

A new early red variety developed by the New York Agricultural Experiment Station. Very odd, because of its wide potato-like leaves. At setting time plants appear similar to peppers, gradually transforming into bushy potato-leaf plants. Its oddity should not be construed as just another novelty, but as an extra fine, heavy yielding commercial variety. Fruits average medium to large, very smooth, free of blossom-end scars, and remarkably resistant to growth cracks. Ripens into about three heavy pickings and develops a very fine red color acceptable for juice and catsup. The slightly flattish fruits are excellent for market, acclaimed by chain stores as one of the finest quality varieties. Vines are bushy until carried down with the fruit load, becoming semi-open during the rapid, successive, heavy pickings. A complete spray or dusting schedule is advisable for early blight, anthracnose and late blight. For maximum yield fertilize heavily.

Postpaid: 1/4 oz. 25c; 1 oz. 75c; 1/4 lb. \$2.50; 1 lb. \$7.50



STOKESDALE (68 Days)

Our strain is the finest, maintaining good size and very heavy yielding. Fruits are solid, uniform bright red color, exceptionally smooth globular and average eight ounces in size. Vines are sturdy, thick stems, heavy foliage, becoming semi-open after lying with the fruit load.

Postpaid: 1/4 oz. 25c; 1 oz. 60c; 1/4 lb. \$1.75; 1 lb. \$6 50

MANASOTA (68 Days)

A recent development at the Vegetable Crops Laboratory, Bradenton, Fla. Highly resistant to wilt. Ripens generous early fruit clusters. Uniformly globular, smooth fruits average medium in size, firm, ripening to a dark red color. Vines very sprawling and extended, having a peculiar tendency of increasing foliage after vines reach maximum spread. A complete spraying or dusting schedule is necessary for early blight, anthracnose and late blight. PRESENT SUPPLY IS EXHAUSTED. NEW CROP OF SEED AVAILABLE AUGUST 1, 1952, at following prices:

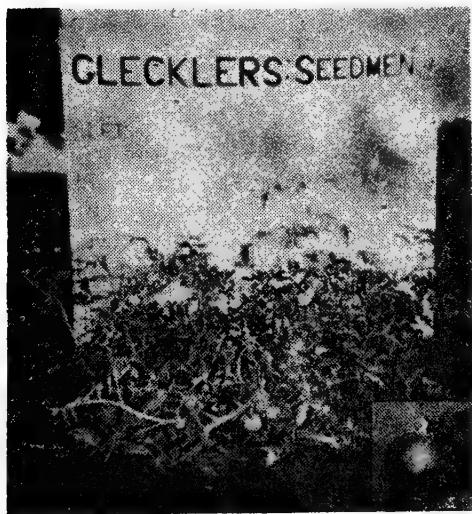
Postpaid: 1/8 oz. 25c; 1/4 oz. 40c; 1 oz. \$1.10; 1/4 lb. \$3.25; 1 lb. \$12.50

WISCONSIN 55 (65 Days) (Early Rutgers)

A new early to mid-season cross of Rutgers. Fruits are slightly oblong, average large, and ripen to a beautiful scarlet red. Notable resistance to cracking and a heavy yielder under all weather conditions. Sets large, early fruit clusters, which is desirable for market growers. Heavy pickings start on this variety while others are waiting for hot weather to speed ripening of later varieties. Vine growth is dense, very vigorous and semi-open at ripening. Resistant to defoliation leaf blight and blossom-end rot. Used extensively by large canneries, because of its excellent canning qualities. A complete spraying or dusting schedule is advisable for early blight, anthracnose and late blight.

Postpaid: 1/4 oz. 25c; 1 oz. 75c; 1/4 lb. \$2.50; 1 lb. \$7.50

LONGRED (68 Days)



A new main crop type for market growers and canners, developed at the New York Agricultural Experiment Station. Fruits are smooth, almost perfectly round, deep globular, medium to large in size. Mid-season in maturity, ripening an early cluster and extending over a long period. We know of no other variety giving so much satisfaction in picking. The perfect roundness, free of cracks and blemishes, fine red color and resistance to sunburn makes it an outstanding variety. Longred shows exceptional resistance to anthracnose as noted in our own field observations and check plots of Campbell Soup Company.

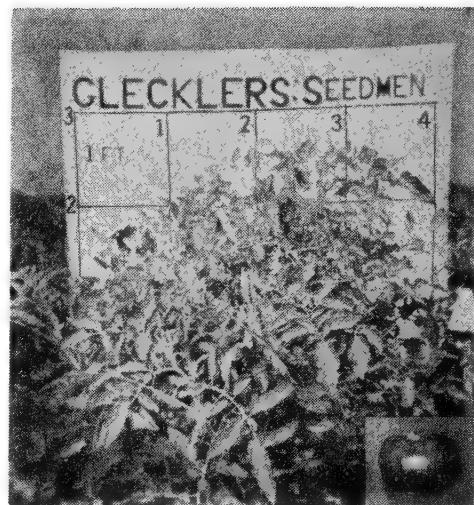
Vine growth is vigorous and sprawling, becoming semi-open at ripening time. The dark green leaves are very thick and rigid. A spraying or dusting schedule is necessary for early blight, for anthracnose when grown on very sandy soil and for late blight when planted late.

Postpaid: 1/4 oz. 25c; 1 oz. 75c; 1/4 lb. 2.50; 1 lb. \$7.50

EARLY GARDEN STATE (65 Days) **(Campbell's 378A)**

A new quality red tomato developed by The Campbell Soup Company, resulting from an extensive breeding program to perfect a canning variety combining earliness, heavy yield, fruit quality and fine red color. Matures a week earlier than Stokesdale. Heavy yielder of slightly flattened fruits, with entire settings averaging large in size, very securely attached by thick stems. Ripe fruit is smooth and remains firm for unusual lengths of time. Vine growth vigorous and dense with wide leaves similar to Rutgers, becoming semi-open after lying down with its fruit load. Its heavy early yield ripens in about three to four heavy pickings in rapid succession and is usually delivered before late blight or the first frost strikes. However, a spray or dust schedule is advisable for early blight and anthracnose.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 40c; 1 oz. \$1.10; $\frac{1}{4}$ lb. \$3.50; 1 lb. \$11.80



A RECORD CROP

EARLY GARDEN STATE (Campbell's 378A) was selected in this area as a canning crop project by a youth member of the Future Farmers of America. A verified yield of 30 tons and 54 pounds on 1.11 acres made an average of 27.05 tons to the acre. The crop grossed \$699.56 and netted \$504.46. He used \$21 worth of fertilizer and dusted four times

MANAHILL (74 Days)

A new red tomato developed at The Vegetable Crops Laboratory, Bradenton, Fla. Bred for resistance to fusarium wilt and gray leaf spot. Very tolerant in wet and poorly drained soil. Matures in season with Rutgers. Heavy yielder of medium to large size fruits, flattened in shape similar to Rutgers. Very meaty fruits are free of white or green cores, which are so common in many varieties. Develops a fine red color, not changing during the process of canning. Vine growth very vigorous and dense with ample foliage protection after being carried down by the fruit load. A complete spraying or dusting schedule is advisable for early blight, anthracnose and late blight.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 40c; 1 oz. \$1.20; $\frac{1}{4}$ lb. \$4.40; 1 lb. \$14.50

VALIANT (62 Days)

One of the best extra early market varieties. Fruits are smooth, deep round shape, firm and ripening to a scarlet red color. Vines have an open, sprawling habit of growth and do best when well fertilized and grown on fairly heavy soil. Our strain of Valiant has shown slightly more foliage coverage than the original. The early yield is heavy, ripening in rapid successive pickings due to its open vine growth, which is valuable for northern states with moderate temperatures. Susceptible to early blight and anthracnose when grown on sandy soil; a spray or dust schedule is advisable to control these diseases.

Postpaid: $\frac{1}{4}$ oz. 25c; 1 oz. 80c; $\frac{1}{4}$ lb. \$2.30; 1 lb. \$6.50

RUTGERS (Indiana Strain) (72 Days)

A superior strain of Rutgers, re-selected and supervised at Purdue University. Slightly earlier and much more productive than the original 290 strain as it came from New Jersey. Fruit quality and color likewise are greatly improved. Fruits are smooth, slightly flattened at the stem end, and deep red color ripening from the interior outward. Thick walls, small seed cavities, with very few seeds form very solid fruits. Plants are large, thick stems, with dense foliage protecting fruits from sunburn. To get maximum yield from Rutgers, soil must not be over supplied with nitrogen, plants should be set as early as possible and spray or dust for early blight, anthracnose and late blight. In northern growing regions with shorter tomato seasons, it is very important to set our Rutgers or any other late variety as soon as possible after the frost-free date, if a spraying or dusting schedule will be used. All fixed copper sprays or dusts definitely hold the foliage longer, delaying ripening toward the harvest frost.

Postpaid: 1/4 oz. 25c; 1 oz. 50c; 1/4 lb. \$1.25; 1 lb. \$4.50

SOUTHLAND (74 Days)

A new wilt and blight resistant variety developed at the Regional Vegetable Breeding Laboratory at Charleston, S. C. Southland is a standard type, general purpose red tomato, ripening in season with Rutgers and Marglobe. About equal to Rutgers in size, but slightly more oblate. Fruits are very smooth, extremely solid and meaty with a very tough peel, holding up for unusual lengths of time after ripening. Its tough skin gives high resistance to cracking. Southland is a fine green wrap and shipping variety. Vines are upright, quite dense and slightly more open than Rutgers at ripening time. Southland is resistant to fusarium wilt, early blight, anthracnose, and one form of common potato late blight, but very susceptible to virulent forms of tomato late blight. A spray program is advisable to control the latter. For maximum yield and fruit size, Southland requires heavy fertilization, particularly high in nitrogen.

Postpaid: 1/8 oz. 25c; 1/4 oz. 40c; 1 oz. 90c; 1/4 lb. \$3.20; 1 lb. \$11.50

EARLIANA (58 Days)

Many new extra early varieties have been introduced in previous years, yet Earliana remains the preferred variety for early market in many states. Our strain is one of the earliest, very productive, with good average size, scarlet fruits.

Postpaid: 1/4 oz. 25c; 1 oz. 80c; 1/4 lb. \$2.30; 1 lb. \$6.50

FIVE CRITICAL DAYS — Whether each tomato blossom will set fruit depends on a period of five critical days. The tomato blossom is strictly self pollinated; that is, male and female parts are contained in each blossom. Pollination takes place at night, whereby temperature must not drop below 65 degrees. There must not be excessive precipitation during this period nor excessive daytime heat to wither and damage the blossom.

BREAK O'DAY (62 Days)

Our strain is the red ripening type, differing from the original, having a yellowish cast. Very resistant to fusarium wilt and nail head spot. Matures extra early. Fruits are crack resistant, smooth and globular, attaining large average size. A fine stake tomato for early market. Does best in cool growing seasons.

Postpaid: 1/4 oz. 25c; 1 oz. 80c; 1/4 lb. \$2.30; 1 lb. \$6.50

CLUSTER - MATO (55 Days)

New Selection

An extra early red tomato of our own selection for market. Extremely solid and meaty, large to medium in size, borne in generous successive clusters, as shown in photograph. Although slightly flattened in the first setting, become globular-shaped in the follow-clusters. The meaty interior, thick outer walls and tough skin resist cracking and bruising. Very mild in flavor, together with the juicy and meaty texture, presents a real table treat. Delightfully smooth and free of blossom-end scars. Plants are very adaptable for staking and semi-open at ripening time. We attribute the extreme earliness to its characteristic to blossom and pollinate in cooler temperatures than permissible with other extra early varieties. For maximum results, plant in a well drained, sandy loam soil and fertilize heavily.



Postpaid: $\frac{1}{8}$ oz. 50c; $\frac{1}{4}$ oz. 80c; 1 oz. \$2.75; $\frac{1}{4}$ lb. \$10.50

OXHEART (80 Days)

A favorite for home gardeners preferring a mild, large fruited tomato. Giant, heart-shaped, pink-fleshed fruits are solid and meaty with few seed cells. Have been known to reach a maximum size of 3 pounds.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 40c; 1 oz. \$1.20; $\frac{1}{4}$ lb. \$4.50

GULF STATE MARKET (70 Days)

Mid-season pink colored with a purple cast. Fruits average large, smooth, slightly flattened, globe shaped. Resistant to cracking and a very heavy yielder. A mild and delicious tomato very much in demand in the extreme southern states.

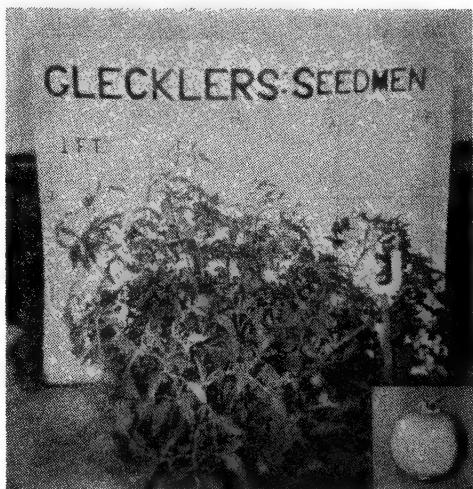
Postpaid: $\frac{1}{4}$ oz. 25c; 1 oz. 80c; $\frac{1}{4}$ lb. \$2.30; 1 lb. \$6.50

SUNRAY (70 Days)

A new golden orange variety developed by Dr. W. S. Porte at The Plant Industry Station, Beltsville, Md. Very important in its color type, mainly because of its resistance to fusarium wilt. A cross of Pan American and Jubilee, possessing all of the wilt resistance of the former, plus excellent fruit qualities of the latter parent. Fruits ripen a beautiful golden orange, uniform deep globular, medium to large in size, solid, meaty, mild in flavor and free of acid. Vine growth very upright until carried down with fruit load, having ample foliage protection thereafter. Leaves are wide, healthy, supported by thick, sturdy vines.

An excellent variety for processing golden orange tomato juice, for home gardens to make tasty and beautiful salads or markets demanding a mild tomato of its color.

Postpaid: $\frac{1}{8}$ oz. 25c; $\frac{1}{4}$ oz. 40c; 1 oz. \$1.20; $\frac{1}{4}$ lb. \$4.40



DWARF CHAMPION (72 Days)

Mid-season to late. Small bushy plants that bear small to medium size fruits, ripening to a pinkish-red color. A fine home garden variety in that it requires only a small space. Fully shaded fruits are very mild in flavor. Dwarf Champion tomatoes have one of the toughest skins in comparison with many other varieties.

Postpaid: $\frac{1}{4}$ oz. 25c; 1 oz. 75c; $\frac{1}{4}$ lb. \$1.75; 1 lb. \$6.50

GOLDEN SPHERE (72 Days)

(Wilt Resistant Yellow)

A new, superb yellow tomato developed by Dr. P. A. Young, plant pathologist at the Texas Agricultural Experiment Station. The result of 10 years effort in breeding and selecting a wilt resistant yellow strain possessing perfect globular, large size fruits of mild delicious flavor. Fruits are very solid with a tough skin. The frosty, fleshy interior is very tempting, and is excellent for preparing mild preserves. Vine growth quite extensive, sprawling, with dense foliage. Leaves are characteristically smooth with a grayish green color.

Postpaid: $\frac{1}{8}$ oz. 50c; $\frac{1}{4}$ oz. 90c;
1 oz. \$3.25

Maturity dates are approximate from setting of healthy stocky plants to ripening of first fruits.



A Rusty Hoe

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The Jonnum Hoe

Stainless Steel:

The stainless steel will not rust your hoe, so when you go out and hoe your garden you don't need to spend half your time cleaning your hoe, and as this metal is four times stronger than ordinary metal it allows a much thinner blade, hence it penetrates the dirt so much easier. The best razor blades are now made of stainless steel, so why not garden hoes!

Mirror Finish:

All models have a fine mirror finish—a late discovery and a patent process known as Electro Finish and is used on the finest jewelry. It is like a mirror in every sense. It will help scour the hoe in the stickiest soil encountered in the middle-west. (See next page for prices.)

The Sealed Shanks:

By looking at the small picture, in center below, you can see how simple it works by having a slotted shank set in hot babbitt inside the ferrell on the hoe, as this molds the shanks and ferrell in one solid piece of metal and is guaranteed for the life of the hoe and no other hoe has this seal, nor the rust-free blade.

Aluminum or Wood Handles

This aluminum airplane tubing handle must be seen to be appreciated as all handles are alike and will not rust, warp or rot away and will last as long as you do. However, we will furnish the wood handles as long as there is a demand for them.

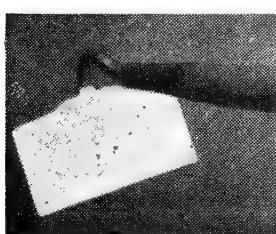


| No. | Postpaid |
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| 1—"Two-in-One" Aluminum Handle | \$2.60 |
| 2—Same Hoe, Wood Handle | 2.10 |
| 3—"Six-in-One" Aluminum Handle | 2.60 |
| 4—Same Hoe with Wood Handle | 2.10 |
| 5—High Blade, Conv. Wood Handle, 6" Cut | 2.10 |
| 6—Medium Blade, Sharp 3 Sides, Wood Handle | 2.00 |
| 7—Low Blade, Lightweight, Wood Handle | 1.90 |
| 10 & 11—Florist Special, Wood Handle | 1.80 |
| Same Hoes with Aluminum Handle | 2.35 |
| 9—A 3"x 4" Scraper or Flower Bed Tool, 14" Handle, Same Steel | 1.40 |

ORDER BY NUMBERS

Blade Temper:

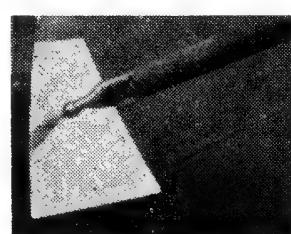
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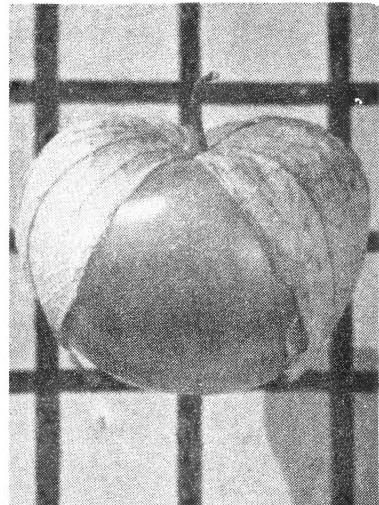
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NEW VEGETABLES FOR NEXT YEAR

Available next year a JUMBO MEXICAN HUSK TOMATO, pictured at right. Mild sweet flavor; exceptionally long keeping quality. Who knows, tomatoes may be harvested with a corn picker in the future.



A NEW GIANT HUNGARIAN -TYPE SWEET PEPPER—Fully 2½ inches in diameter and 9 inches long. Green color for harvest and red at maturity. Very rich in vitamins.

A RARE VEGETABLE FROM AUSTRALIA—Fruits are mealy, similar to a potato but are acid in flavor similar to the tomato and are produced on the stalk above the ground. They are an annual.

• • •

YELLOW PLUM (Super Argentina Strain) (72 Days)

A much more productive strain, obtained from Argentina. Beautiful plum-shaped fruits grow in clusters six to eight in number. Very mild in flavor; valuable for making eye-appealing, tasty salad dishes and also for preparing mild preserves. Vine growth is vigorous, sprawling, with healthy dark green foliage.

Prices Postpaid: Packet 25c; ¼ oz. 60c; 1 oz. \$2.25

LYCOPERSICON CERASIFORME (75 Days)

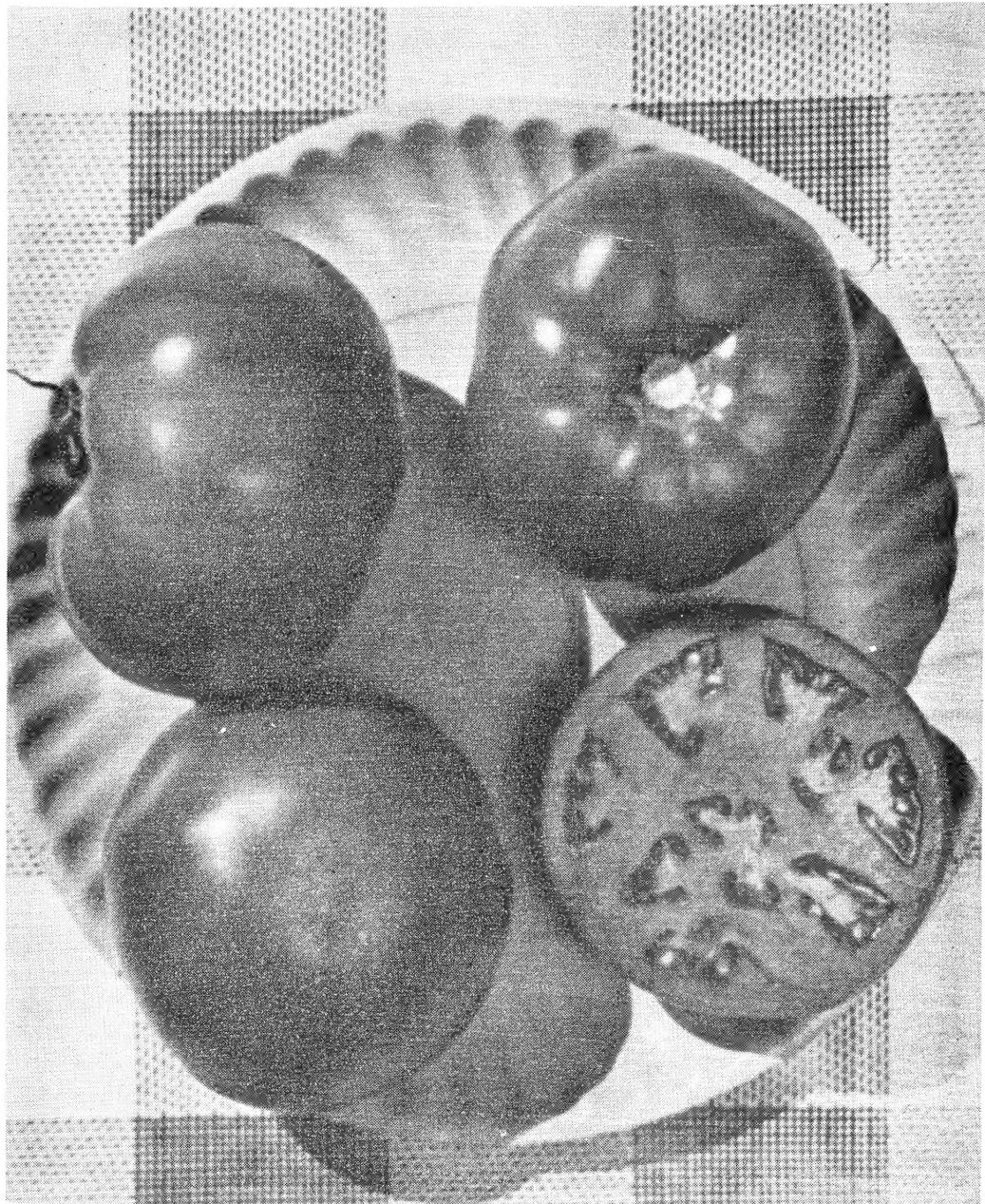
The oldest species of wild tomatoes, originally discovered along the borders of Peru and Ecuador, South America. Very disease resistant, used for breeding new varieties and a novelty. Small fruits, one-half to one inch in diameter, having two locules or seed cells, deep globular. Terrific vine growth, sprawling, very dense, reaching maximum spread of about 25 feet.

Prices Postpaid: Packet 25c

LYCOPERSICON PIMPINELLIFOLIUM (75 Days)

Another strain of wild tomatoes from South America. Considered the smallest tomato that exists. Small fruits seldom larger than one quarter inch in diameter are borne in clusters, each vine bearing a thousand or more. The perfect globular currant-like fruits possess two seed cells and are very mild in flavor. This strain is widely used in breeding work, because of its complete resistance to fusarium wilt and early blight. Vine growth is extensive, very low, sprawling, with a distinct characteristic of very small delicate leaves.

Prices Postpaid: Packet 25c



PERON (Sprayless Tomato) (68 Days)

A miraculous variety developed by Prof. Abelardo Piovano, vegetable specialist and agronomist at the National University of Argentina. Medium size, bushy vines are very resistant to fungus diseases common to tomatoes. Foliage is semi-dense. Maturity mid-season. A very heavy yielder of large size, slightly flattened globular fruits of the most extra-ordinary quality. Interior of fruits are very solid and meaty, without any core. Very small and numerous seed cells form an excellent structure in supporting the fruit for shipping. Ripens to a beautiful deep red color over the entire fruit without green or yellow shoulders. Its tough, velvety-smooth skin is very crack resistant and easily peeled without immersing in hot water, a rarity not found in other varieties. Flavor is mildly acid and of a most delicious taste. Fruits keep exceptionally long after ripening. The Peron tomato will produce a normal crop without any disease control in most areas, but where soil is very low in organic matter or areas subjected to severe outbreaks of diseases, only half of a regular spray schedule is necessary. The field of possibilities for the Peron tomato are unlimited, for it is perfectly adapted for green wrap, market and canning. Its mid-season maturity, about a week to 10 days earlier than Rutgers, adapts it to a wide area throughout the states.

Prices Postpaid: Packet (about 600 seeds) 50c; $\frac{1}{4}$ oz. \$1.75; 1 oz. \$6.50